

Health Information Systems and the Advancement of Medical Practice in Developing Countries

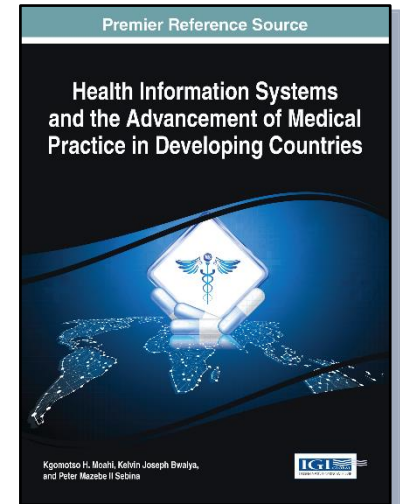
Part of the Advances in Human Services and Public Health Book Series

Kgomotso H. Moahi (University of Botswana, Botswana), Kelvin Joseph Bwalya (University of Johannesburg, South Africa) and Peter Mazebe II Sebina (University of Botswana, Botswana)

Description:

The continuous development of new technologies has led to significant socio-economic advances in modern society. When applied in the medical sector, healthcare delivery techniques are optimized.

Health Information Systems and the Advancement of Medical Practice in Developing Countries is a comprehensive reference source for the latest scholarly research on technology utilization for delivering reliable and accurate health information to patients and clinical staff. Highlighting pivotal perspectives on topics such as mobile health, telemedicine, and healthcare access, this book is ideally designed for professionals, practitioners, researchers, academics, and graduate students interested in the benefits and challenges of technology applications in healthcare systems.



ISBN: 9781522522621

Release Date: May, 2017

Copyright: 2017

Pages: 300

Topics Covered:

- E-Learning Resources
- Geographic Information Systems
- Health Service Costs
- Healthcare Access
- Medical Education
- Mobile Health
- Telemedicine

Hardcover: **\$200.00**

E-Book: **\$200.00**

Hardcover + E-Book: **\$240.00**

Order Information

Phone: 717-533-8845 x100

Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115

Online Bookstore: www.igi-global.com



Table of Contents

Preface

Section 1

Technologies for Health and Medical Care

Chapter 1

Records Management and Open data in healthcare provision in Africa: reflections and lessons for Botswana

Peter Mazebe Il Mothataesi Sebina & Balulwami Grand, University of Botswana, Botswana

Chapter 2

Big data and Healthcare: Implications for Medical and Healthcare in Low Resource Countries

Kgomotso H Moahi, University of Botswana, Botswana

Chapter 3

Open Source Technology for Medical Practice in Developing Countries

Afton Chavez, Geisel School of Medicine at Dartmouth; Carrie Kovarik, Perelman School of Medicine, University of Pennsylvania, USA

Chapter 4

Knowledge Sharing for Healthcare and Medicine in Developing countries: Opportunities, Issues, and Experiences

Kgomotso H. Moahi, University of Botswana, Botswana & Kelvin J Bwalya, University of Johannesburg, South Africa

Section 2

Mobile Health Implementation

Chapter 5

Viral Education via Mobile Phones: Virtual International Networks and Ebola Prevention in Sierra Leone

Julia Maria Bello Bravo, University of Illinois at Urbana-Champaign; Anne Namatsi Lutomia, University of Illinois Urbana Champaign, USA

Chapter 6

Mobile Phones and Expanding Human Capabilities in Plural Health Systems

Steven Sam, University of Queensland, Australia

Chapter 7

Implementation of Mobile Health Initiatives in Malawi: Current Status, Issues and Challenges

Donald F E Malanga, University of Livingstonia, Malawi

Section 3

Telehealth, Telemedicine, and Healthcare

Chapter 8

Telemedicine in low resource settings: A case for Botswana

Kagiso Ndlovu, University of Botswana, Botswana; Kabelo L Mauco, Boitekanelo College, Botswana; Ryan Littman-Quinn, Botswana-Upenn Partnership, Botswana

Chapter 9

Telemedicine and Electronic Health: Issues and Implications in Developing Countries

Kijpokin Kasemsap, Suan Sunandha Rajabhat University, Thailand

Chapter 10

Next wave of telemedicine: Virtual presence of Medical Personnel

Kelvin J Bwalya, University of Johannesburg, South Africa

Section 4

Systems for Health Information Management

Chapter 11

Use of Information and Communication Technology by Health Care Providers for Continuing Professional Development in Botswana

Wananani, W.B. Tshiamo, Mabedi Kgositau, Mabel Magowe, University of Botswana, Botswana

Chapter 12

It has been Quite a Journey: Experiences and Evolution in Health Information in Zimbabwe

Njabulo Bruce Khumalo, National University of Science and Technology, Zimbabwe

Chapter 13

The Tanzania Health Facility Registry Case: Work and Lessons Learned

Niamh Darcy, RTI International, Tanzania; Sriyanjit Perera, CTS Global Solution, CDC, Tanzania; Grades Stanley, National Institute for Medical Research, Tanzania; Susan Rumisha, National Institute for Medical Research,; Kelvin Assenga, RTI International, Tanzania; Faustin Polycarp, RTI International, Tanzania; University of Notre Dame, USA; Angelina Sijaona, Ministry of Health, Tanzania; Esther Msechu, Ministry of Health, Tanzania; Marcos Mzeru, Ministry of Health, Tanzania; Claud Kumalija, Ministry of Health, Tanzania; Michael Kambenga, University of Dar es Salaam, Tanzania; Benjamin Mayala, National Institute for Medical Research, Tanzania & University of Notre Dame, USA; Mturi Elias, University of Dar es Salaam, Tanzania; Paul Biondich, Indiana University, Regenstrief Institute, USA; Zaharani Kalungwa, U.S. Centers for Disease Control and Prevention, Tanzania; Japhal Mwamafupa, Presidents Office Regional and Local Government, Kibaha District Council, Tanzania; Nseyo Kipilyango, RTI International, Tanzania; Scott Teesdale, InSTEDD, USA

Chapter 14

Health Information Systems, E-health Strategy and the Management of Health Records: The Quest to Transform South Africa's Public Health Sector

Shadrack Katuu, International Atomic Energy Agency, Vienna

Chapter 15

Developing and measuring the business case for health information technology

Duncan Wade Unwin, Louis Sanzogni, & Kuldeep Sandhu, Griffith University, Australia

Compilation of References

About the Contributors

Index

Kgomotso Moahi is an Associate Professor in the Department of Library and Information Studies at the University of Botswana. Kgomotso Moahi has researched and written extensively on the use of ICTs in information management and librarianship; promotion and protection of indigenous knowledge; and health informatics. Kgomotso has served in many capacities at the University of Botswana: She has been head of Department in the Library and Information Studies department; she has been Dean of the Faculty of Humanities; she has served in many committees and has been a member of Senate and the governing Council. She has also represented the University in her professional service by participating in a number of initiatives aimed at encouraging the use of Information Communication Technology (ICT) for development such as the development of an ICT policy for Botswana (MAITLAMO); She was co-chair of the health commission in the 2nd World Information Technology Forum (WITFOR) conference that took place in Gaborone in 2005; She participated in a Telemedicine feasibility study that was spearheaded by the Botswana Technology Centre (BOTECH) in 2005/6. She helped found the Children's Information Trust in 2004 which aims to encourage the development of libraries in primary schools. Kgomotso Moahi is currently vice Chair of the ICT sub sector committee of the Human Resource Development Council of Botswana.

Kelvin Joseph Bwalya is an Associate Professor at the Centre for Information and Knowledge Management, University of Johannesburg. He has a PhD in Information Management (University of Johannesburg), Masters of Computer Science (Korea Advanced Institute of Science and Technology – KAIST) and Bachelors in Electronics and Electrical Power Engineering (Moscow Power Engineering Technical University). He is also a member of the Board of Directors – Mosi-oa-Tunya University of Science and Technology – MUST. Prof Bwalya is also a PhD supervisor and member of the Board of Exams at Tswane University of Technology, National University of Science and Technology - Zimbabwe, University of KwaZulu Natal, University of South Africa, University of Zululand, University of the Free State, Annamalai University, Alagappa University, Mohamed Sathak College of Arts and Science, etc. He has supervised 5 PhDs to completion, several Masters and undergraduate projects. He has published 7 books and over 100 pieces of peer reviewed articles and has also managed research funds over US\$500,000 in total. He is also a member of various professional bodies and editorial teams. He has previously worked at the University of Botswana, University of Zambia, Samsung Electronics and has led teams of experts in Information Systems and Information Technology tertiary programmes' assessments under the auspices of the Botswana Qualifications Authority. His current research interests are big data and predictive analytics, genomics, spatial-temporal data modelling, competitive intelligence, databases, m-Government, open data, etc.

Peter Mazebe Il Mothataesi Sebina, PhD, is a Senior Lecturer in the Department of Library and Information Studies, University of Botswana. He serves on the editorial board of Archival Science and has previously served as deputy editor of the ESARBICA Journal; is the current President of the Botswana Library Association and a committee member of the Records and Information Association of Botswana; also sits on the Archives Advisory Council of Botswana. Peter was also part of a team that developed the draft national library policy of Botswana, currently before Parliament. His PhD is titled 'Freedom of Information and Records Management: a learning curve for Botswana.' He has published and presented extensively on Freedom of Information, its relationship with records management and plays an active role in the campaign for the legislation in Botswana. Peter has been involved in records management improvement exercises and studies in Botswana, Northwest Province of South Africa and Zambia. Included also are library improvement studies in Botswana. His research interests include: advocacy for library, archives and records management; legal aspects of information management; Freedom of Information and Privacy laws and their relationships with records, library and general information management; information management for transparency (including budget transparency) and effective citizen engagement and participation.

Order Information

Phone: 717-533-8845 x100

Toll Free: 1-866-342-6657

Fax: 717-533-8661 or 717-533-7115

Online Bookstore: www.igi-global.com

